

SITE PREPARATION

NEW CONSTRUCTION

REMEDIAL REPAIR

HELICAL PULLDOWN® MICROPILE

ATLAS RESISTANCE® PIERS

HELICAL UNDERPINNING

EARTH RETENTION

»» RETAINING WALLS

»» HELICAL TIEBACK

SOIL SCREW®

PIPELINE STABILIZATION

TELECOM/SUBSTATION

UTILITY/SOLAR

CHANCE® DISTRIBUTOR
FOUNDATION TECHNOLOGIES, INC.
 LAWRENCEVILLE, GA

CHANCE CERTIFIED
INSTALLER
MASON GRADY FOUNDATIONS, LLC
 PENSACOLA, FL / CAIRO, GA

GENERAL CONTRACTOR
ANDERSON COLUMBIA CO., INC.
 LAKE CITY, FL

STRUCTURAL ENGINEER
KEEVER - MCKEE
 TALLAHASSEE, FL

Hubbell Power Systems, Inc. is the world's leading helical pile/anchor manufacturer. The CHANCE® brand offers a technically advanced, cost effective solution for the Civil Construction and Electric Utility and Telecommunications markets.

FDOT Sheet Pile Wall Escambia County, Florida



View of the work area and existing roadways.

PROJECT:

Florida DOT Bridge Repair Project located at the overpass of SR95 and SR10 in Escambia County, FL.

BACKGROUND:

Crane access was needed between the North and South bound lanes in order to drive new concrete pilings that would support a new bridge. **PROBLEM:** Soil between the two lanes of traffic would need to be removed in order to build a ramp to allow the crane access to the work area. Steel sheets would be driven in the median adjacent to each lane of traffic to retain the soil below each lane. Tiebacks were needed to support a waler system that would stabilize each sheet.

SOLUTION:

Anderson Columbia chose CHANCE® Helical Anchors to tieback the steel sheets. Anchor loads varied from waler to waler and ranged from 20 to 35-kips working load. This product allows various helical bearing plate sizes and quantities to be used on the central shaft of the anchor so the lower capacity anchors were

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View of the completed anchor and waler system after testing and final lock off.

installed with fewer helices, therefore, saving the client in material costs. The CHANCE Helical Design Software Program, HeliCAP®, determined the sizes and quantities of the helical bearing plates needed to achieve design capacities. Mason Grady Foundations installed a total of 77 CHANCE Model SS150 (1-1/2" Square Bar, 90 KSI) Helical Anchors. Anchor lengths ranged from 20 to 40 feet. Each anchor was equipped with a 1" Dywidag Adapter, 1" Dywidag Bar, 1" Nut, and 6" square plate to allow for connection to the steel waler. Each anchor was pulled tested immediately after waler installation to 125% of the design load and then locked off at 75% of the design load. Anchor installation and testing took approximately three weeks to complete.

KEY BENEFITS:

- Limited Access
- Time to install faster than concrete
- Standard equipment for installation
- Immediate loading
- All weather installation



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CHANCE® Certification #1912-0009-3630

Mason Grady Foundations specializes in CHANCE Helical Pile Systems primarily for foundations and retaining walls. The company is a certified CHANCE installer, we are family owned and operated, and we are a member of the CHANCE Alliance Network.

